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dates of migration can be given only in special articles on the subject, and without such methodical study no satisfactory results can be obtained. I have in many published articles in the *AMERICAN MIDLAND NATURALIST* attempted a complete statement of the migratory habits of the birds of Notre Dame, Indiana. To these articles, then, I refer my auditors for an exact account of present conditions of migration.

Thus the story of our birds ends. To have done full justice to the subject would require a volume. I have aimed at giving only a summary of my observations—and this mostly in what related to the distribution and migration of our birds. The more interesting, but not more important, part of a bird's life—its habits—I have barely touched upon, chiefly because hitherto my study of birds' habits has been incidental, and can not be thoroughly done without neglecting the other departments. I hope to take up this part of ornithology when I shall have finished my study of the migration and distribution of our birds.

ENUMERANTUR PLANTAE DAKOTAE SEPTENTRIONALIS VASCULARES.—VI.

ENUMERAVIT J. LUNELL.

The Vascular Plants of North Dakota.—VI.

With Notes by J. Lunell.

504. **Biauricula intermedia** (Guersent) Lunell.

Iberis intermedia Guersent. Bul. Soc. Philom. III, 169, t. 21, (1811).

Occasionally escaped. Leeds.

LEPIDIUM Dioscorides II: 166. Plinius XX: 17. Tour. Els. 184. (1694). Anguillara, Matthioli, etc. Linn. Syst. (1735), Gen. (1737 and 1754).

505. **Lepidium densiflorum** Schrader, Ind. Sem. Gott. 4. (1835).

Lepidium intermedium A. Gray, Man. Ed. 2. (1856).

Leeds, Sheyenne.

506. **Lepidium ramosissimum** A. Nels. in Bull. Torr. Bot. Club. 26: 124. (1899.)

Leeds.

CAMELINA Ruellius, Nat. Stirp. 326. (1543). Crantz, Stirp. Austr. I: 18. (1762). *Myagrurn* Diosc.

507. *Camelina sativa* Crantz, l. c.

Myagrurn sativum Linn. Sp. Pl. 641. (1753).

Leeds, Butte.

NESLIA Desv. Journ. Bot. 3: 162. (1814).

508. *Neslia paniculata* (Linn.) Desv. l. c.

Myagrurn paniculatum Linn. Sp. Pl. 641. (1753).

Leeds, St. John, Minot.

SOPHIA Brunfels, Hist. 3: 170. (1543). Lobelius, Icon. 738. (1581). Ray. Hist. 1. 812. (1686). Adans. Fam. des Pl. II. 417. (1763).

509. *Sophia Chirurgorum* Lobelius Obs. 426 (1576); also Trew. Herb. Blackw. V, t. 440 (1765).

Sisymbrium Sophia Linn. Sp. Pl. 659. (1753).

Descurainia Sophia Webb.; Prantl in Engler & Prantl, Nat. Pfl. Fam. 3: Abth. 2. 192. (1892).

Sophia Lobelii Rupr. Fl. Cauc. 88. (1869).

Sophia Sophia (Linn.) Britt. & Br. Ill. Fl. II: 145. (1897).

The use of the same word to signify both genus and species for a plant is objectionable, and it would simply be unfair not to make the same allowance for varieties. How would this sound: *Sophia Sophia* var. *Sophia*?!

Leeds: Kulm (Brenckle).

510. *Sophia brevipes* (Nutt.) Rydb.

Sisymbrium canescens brevipes Nutt.

Leeds, Peninsula of Lake Ibsen; Kulm (Brenckle).

511. *Sophia filipes* (A. Gray) Heller, in Bull. Torr. Bot. Club. 24: 311. (1897).

Dry bottom of Willow Creek near Dunsieith.

512. *Sophia intermedia* Rydb. in Mem. N. Y. Bot. Gard. I: 184. (1900).

Leeds, Pleasant Lake, Towner.

NORTA Adanson, Fam. des Pl. 417. (1763).

513. *Norta altissima* (Linn.) Britt. Ill. Fl. 2 ed. II. (1913).

Sisymbrium altissimum Linn. Sp. Pl. 659. (1753).

Leeds, and everywhere in the western part of the state.

CHEIRINIA Link, Enum. Hort. Berol. II: 170. (1820).

514. *Cheirinia cheiranthoides* (Linn.) Link. l. c.

Erysimum cheiranthoides Linn. Sp. Pl. 661. (1753).

Leeds, Peninsula of Lake Ibsen.

515. **Cheirinia cheiranthoides** var. **prostrata** Lunell.

Cheiranthus cheiranthoides var. *prostratus* Lunell, in Bull. Leeds Herb. no. 2, p. 6. (1908).

Rolette County: near Dunseith.

516. **Cheirinia inconspicua** (S. Wats.) Rydb. Bull. Torr. Bot. Club 39: 323. (1912).

Erysimum parviflorum Nutt.; T. & G. Fl. N. Am. I: 95. (1838). Not Pers. (1807).

Erysimum asperum inconspicuum S. Wats. in King, Geol. Expl. 40th Par. 5: 24. (1871).

In planted farm groves, etc. Leeds.

517. **Cheirinia syrticola** (Sheldon) Lunell.

Erysimum syrticolum Sheldon in Bull. Torr. Bot. Club. 20: 285. (1893).

On the open prairie. Leeds and everywhere.

518. **Cheirinia aspera** (Nutt.) Rydb. Bull. Torr. Bot. Club 39: 323. (1912).

Cheiranthus asper Nutt. Gen. Pl. 2: 69. (1818).

Erysimum asperum DC. Reg. Veg. Sept. 2: 505. (1821).

Butte, Oberon, Towner. Minot.

1201. **Cheirinia elata** (Nutt.) Rydb. Bull. Torr. Bot. Club. 39: 327. (1912).

Erysimum elatum Nutt.; T. & G. Fl. N. A. I: 95. (1838).

Cheiranthus elatus (Nutt.) Greene, Pittonia III: 135. (1896). Thorne.

ERYSIMUM Dioscorides II: 187. Plinius Hist. Nat. Linn. Syst. (1735), Gen. (1737 and 1754). Not Theophrastus = *Polygonum Fagopyrum* Linn. *Sisymbrium* of modern authors, not of the ancients and Dioscorides, which is a *Mentha*.

519. **Erysimum vulgare** Bauhin (Pinax 100. 1623), var. **leiocarpum** (DC.) Lunell.

Sisymbrium officinale leiocarpum DC. Prodr. I: 191. (1824).

Leeds, Devils Lake.

HESPERIS Plinius XXI: 7. Tour. Els. 190. (1694).

520. **Hesperis hortensis** C. Bauhin, Pinax 202 (1623), also Phytopinax 379. (1596).

Hesperis matronalis Linn. Sp. Pl. 663. (1753).

Kulm (Brenckle).

RAPHANUS Theophr. Hist. 7: 4 Diosc. 2: 138. and of all later authors.

Radicula Dodonaeus Pempt. 666. (1583).

521. **Raphanus sativus** Linn. Sp. Pl. 669. (1753).

Escaped. Leeds, Pleasant Lake.

BARBAREA Lobelius, Obs. 104. (1575), Dodonaeus, Pempt. 5: 4: 20. (1583), R. Br., Ait. Hort. Kew. ed. 2. 4: 109. (1812).

522. **Barbarea vulgaris** R. Br., l. c.

Fargo (Cl. Waldron).

TURRITIS Lobelius, Icones (1591), Dillenius, Gen. 120. (1719), Linn. Syst. (1735).

523. **Turritis hirsuta** Linn. Sp. Pl. 666. (1753).

Arabis hirsuta (Linn.) Scop. Fl. Carn. ed. 2: II: 30. (1772).

Leeds, Butte, Sheyenne.

524. **Turritis brachycarpa**. T. & G., Fl. N. Am. I: 79. (1838).

Arabis brachycarpa (T. & G.) Britton, Mem. Torr. Bot. Club V: 174. (1894).

Devils Lake.

525. **Turritis retrofracta** (Graham) Lunell.

Arabis retrofracta Graham, Edinb. Phil. Jour. 349. (1829).

Dunsieth, Towner, Minot.

DRACAMINE Nwd. Am. Midl. Nat. IV: 40. (1915).

Cardamine Clusius, Haller, Lobelius, Linn. Syst. (1735), Gen. (1737 and 1754). Tour. Els. 191. (1694), not Dioscorides, which is *Sisymbrium Nasturtium aquaticum* Linn.

526. **Dracamine pennsylvanica** (Muhl.) Nwd. l. c.

Cardamine pennsylvanica Muhl.; Willd. Sp. Pl. III: 486. (1800) Walhalla (Bergman).

CONRINGIA Link. Enum. Pl. 2: 172. (1822).

527. **Conringia orientalis** (Linn.) Dum. Fl. Belg. 123. (1827).

Brassica orientalis Linn. Sp. Pl. 666. (1753).

Conringia perfoliata Link., l. c.

Leeds, Butte, Pleasant Lake.

ERUCA Mill. Gard. Dict. ed. 8. no. 1. (1768). Tour. Els. 193. (1694).

528. **Eruca latifolia** Bauhin Prod. 39, (1620).

Brassica Eruca Linn. Sp. Pl. 667. (1753).

Eruca Eruca (Linn.) Britt. Ill. Fl. ed. 2. II: 192. (1913).

Eruca sativa Mill. l. c.

Aneta (John Lundquist).

BRASSICA Cicero, Cato, Plinius XIX: 8, XX: 9.

529. *Brassica campestris* Linn. Sp. Pl. 666. (1753).

Fargo (Cl. Waldron).

SINAPIS Dioscorides 2: 154. Theophrastus 7: 3 and 6, Plinius XIX: 68, XX: 22, Brunfels, Dodonaeus, etc., Tour. Els. 193. (1694), Linn. Syst. (1735), Gen. (1737 and 1754).

530. *Sinapis nigra* Linn. Sp. Pl. 668. (1753).

Brassica nigra (Linn.) Koch in Roehl, Deutsche Fl. ed. 3, 4: 713. (1833).

Leeds.

531. *Sinapis arvensis* Linn. Sp. Pl. 668. (1753).

Brassica Sinapistrum Boiss. Voy. Espagne, 3: 39. (1839).

Brassica arvensis (Linn.) B. S. P. Presl. Cat. N. Y. (1888).

Leeds.

HIRSCHFELDIA Fritsch, Exkursfl. Oesterr. ed. 2, p. 265. (1909).

Erucastrum Presl., undesirable name as built on *Eruca*.

532. *Hirschfeldia Pollichii* (Schimp. & Spann.) Fritsch, Exkursfl., 1. c.

Erucastrum Pollichii Schimp. & Spann., Fl. Freib. III, p. 946. (1829).

Fargo (Cl. Waldron). Well established.

533. *Matthiola* sp.

Occasional escape from cultivation, Leeds.

Family 52. **CAPPARIDAE** Vent. Tabl. III: 118. (1794.)

JACKSONIA Raf., Med. Repos. V. 352. (1808), not R. Br. in Ait. Hort. Kew. III: 12. (1811).

Polanisia Raf. Am. Month. Mag. 267. (1818), also Journ. de Phys. 98. (1819).

534. *Jacksonia trachysperma* (T. & G.) Greene, Pittonia 2: 175. (1891).

Polanisia trachysperma T. & G. Fl. N. A. I: 669. (1840).

Leeds, Narrows.

535. *Jacksonia trifoliata* Raf., Med. Repos. N. Y. 1. c.

Polanisia graveolens Raf. Journ. de Phys., 1. c.

Polanisia dodecandra B. S. P. Cat. N. Y. 6. (1888), not *Cleome dodecandra* Linn.

In the eastern part of the state.

PERITOMA DC. Prodr. I: 237. (1824).

536. *Peritoma serrulatum* (Pursh) DC., l. c.

Cleome serrulata Pursh, Fl. Am. Sept. 441. (1814)

Cleome integrifolia T. & G. Fl. N. Am. I: 122. (1838).

Leeds, Hurricane Lake.

Family 53. **RESEDACEAE** S. F. Gray, Nat. Arr. Brit.

Pl. 2: 665. (1821).

RESEDA Linn. Sp. Pl. 448. (1753).

537. *Reseda odorata* Linn., l. c.

Escaped from cultivation. Leeds.

Order 24. **CALOPHYTAE.**

Bartling, Ord. Nat. Pl. 330, 398. (1830).

Family 54. **PENTHORACEAE** Rydl. N. Am. Fl. 22: 75.

(1905).

PENTHORUM Gronovius, Fl. Virg. 51. (1739). Linn.: Gen.

(1742), Act. Ups. (1744).

538. *Penthorum sedoides* Linn. Sp. Pl. 432. (1753).

Fargo (Bergman).

Family 55. **PARNASSIEAE** S. F. Gray, Nat. Arr. Brit.

Pl. II: 623. (1821).

PARNASSIA Tour. Els. 212. (1694), I. R. H. 246. (1700).

Linn. Syst. (1735), Gen. (1737 and 1754), Haller, Helv. 316. (1742).

539. *Parnassia caroliniana* Michx. Fl. Bor. Am. I: 184. (1803)

Towner.

540. *Parnassia palustris* Linn. Sp. Pl. 273. (1753).

Towner, Butte.

Family 56. **SAXIFRAGEAE** Vent., Tab. III: 277. (1799).

HEUCHERA Linn., Syst. (1735), Gen. (1737 and 1754),

Hort. Cliff. 82. (1737).

541. *Heuchera hispida* Pursh, Fl. Am. Sept. 188. (1814).

Leeds, Butte.

Family 57. **GROSSULARIACEAE** Dumort. Anal. Fam. Fl.

37. (1829).

GROSSULARIA Ruellius, Hist. Stirp. 213. (1543). Clusius,

Hist. (1605). Tour. Els. 501. (1694), I. R. H. 639. (1700), Miller,

Gard. Dict. Abr. (1754).

542. *Grossularia saxosa* (Hook.).

Ribes saxosum Hook. Fl. Bor. Am. I: 231. (1833).

Devil's Lake, Turtle Mountains, Minot.

COREOSMA Spach, Veg. Syst. VI: 154. (1838), also Ann.

Nat., Ser. II, IV. 2. (1835).

543. **Coreosma prostata** (L'Her.) Lunell.
Ribes prostratum L'Her, Stirp. Nov. I: 3, Pl. 2, (1784).
 Turtle Mountains: Fish Lake.
544. **Coreosma americana** (Miller) Nwd. Am. Midl. Nat.
 IV: 60. (1915).
Coreosma florida Spach, Veg. Syst. VI: 157. (1838).
Ribes floridum L'Herit. Stirp. Nov. 1, 4. (1784).
Ribes americanum Miller, Gard. Dict. ed. 8. (1768).
 Peninsula of Lake Ibsen, Turtle Mountains.
545. **Coreosma tristis** (Pall.) Lunell.
Ribes triste Pall. *Ribes rubrum* var. *subglandulosum* Maxim.
 Pleasant Lake, Turtle Mountains.
546. **Coreosma longiflora** (Nutt.) Lunell.
Ribes longiflorum Nutt. Ker. Bot. Reg. 2: pl. 125. (1816).
 Medora, Sentinel Butte (Bergman).
 Family 58. **SPIRAEACEAE** Loiseleur Delongchamps, Man.
 Pl. Indig. I: 188. (1818).
SPIRAEA Theophrastus I: 23, Bauhin, Pinax 475. (1623),
 Clusius, Hist. I: 80. (1605), Tour. Els. 490. (1694).
547. **Spiraea alba** Duroi, Harb. Baumz. II: 430. (1772).
Spiraea salicifolia lanceolata T. & G., Fl. N. Am. I: 145. (1840).
 Pleasant Lake.
548. **Spiraea latifolia** (Ait.) Borck. Handb. Forstb. 1871. (1803)
Spiraea salicifolia latifolia Ait. Hort. Kew 2: 198. (1789).
 Turtle Mountains.
549. **Spiraea simplex** Greene, Leaflets II. 157. (1911).
 Leeds, Butte.
505. **Spiraea Vanhouttei** Zabel. Witm., Gartenzezeit. III,
 496 (1884).
 Plant under cultivation, with a self-spreading tendency. Leeds.
 Family 59. **DRYADEAE** Vent. Tabl. III. 346. Also **Bartling**,
 Ord. Nat. Pl. 230. (1830).
PENTAPHYLLUM Dioscorides 4: 72, Theophrastus, Hist.
 9: 14.
551. **Pentaphyllum concinnum** (Richards.) Nwd. & Lll.
Potentilla concinna Richards., Frankl. 1st Journ. 739. (1823).
Potentilla humifusa Nutt. Gen. I, 310. (1818).
 Leeds, Butte; Dickinson (Cl. Waldron).
552. **Pentaphyllum pulcherrimum** (Lehm.) Nwd. & Lll.
Potentilla pulcherrima Lehm. Nov. Stirp. Pugill. 2: 10. (1830).

- Leeds, Oberon.
 553. **Pentaphyllum viridescens** (Rydb.) Lunell.
Potentilla viridescens Rydb. (Monog. Pot.) Mem. Dept. Bot.
 Columbia Univ. 2: 43. (1898).
 Butte.
 554. **Pentaphyllum pennsylvanicum** (Linn.)
Potentilla pennsylvanica Linn. Mant. Pl. 76 (1767).
 Leeds.
 555. **Pentaphyllum strigosum** (Pursh).
Potentilla strigosa (Pursh) Pall.; Tratt. Rosac. Monogr. 4: 31.
 (1824).
Potentilla pennsylvanica strigosa Pursh. Fl. Am. Septentr.
 356. (1814).
Potentilla arachnoidea Dougl.; Rydb. N. Amer. Fl. 22: 350.
 (1908).
 Leeds, Pleasant Lake.
 556. **Pentaphyllum bipinnatifidum** (Dougl.)
Potentilla bipinnatifida Dougl.; Hook. Fl. Bor. Am. I: 188.
 (1833).
Potentilla pennsylvanica bipinnatifida (Dougl.) T. & G. Fl.
 N. A. I: 438. (1838).
 Leeds, Pleasant Lake.
 557. **Pentaphyllum platylobum** (Rydb.)
Potentilla platyloba Rydb. Fl. of Colo. 184. (1906).
Potentilla bipinnatifida platyloba Rydb. Bull. Torr. Cl. XXX:
 143. (1906).
 Butte.
 558. **Pentaphyllum argyreum** (Rydb.).
Potentilla argyrea Rydb. N. Am. Fl. XXII: 341. (1908).
 Antler (Bergman).
 559. **Pentaphyllum effusum** (Dougl.).
Potentilla effusa Dougl. :Lehm. Nov. Stirp. Pug. 2: 8. (1830).
 Dunsieath.
 560. **Pentaphyllum glabrellum** (Rydb.).
Potentilla glabrella Rydb. Mem. Columb. Univ. II: 94. (1898).
 Butte (extinct).
 561. **Pentaphyllum Hippianum** (Lehm.).
Potentilla Hippiana Lehm. Nov. Stirp. Pugill. 2: 7. (1830).
Potentilla leucophylla Torr. Am. Lyc. N. Y. 2: 197. (1827).
 not Pall. (1773).

Potentilla pennsylvanica Hippiana T. & G. Fl. N. A. I: 438. (1849).

Butte, Sheyenne.

Pentiphyllum is a good genus name for the species here numbered 551-553. For the following (numbered 554-561) it is just as fitting as *Chrysanthemum* is for those of its species having white rays!

POTENTILLA Brunfels in C. Bauhin Pinax. 321. (1623). Matthioli, Fuchsius Hist. and Stirp. (1546), Stirp. Hist. 355. (1549), Caesalpinus, De Plantis 557. (1558).

562. **Potentilla Anserina** Linn. Sp. Pl. 495. (1753).

Argentina vulgaris Lam., Fl. Fr. 3. (1778).

Leeds.

563. **Potentilla Anserina concolor** Rydb. Mem. Bot. Col. Coll. 2: 160. (1898).

Argentian argentea Rydb. Bull. Torr. Club. 33: 143. (1906), seems to possess a different, more permanently and deeply silvery dressing, covering all the leaves. In our plant it often happens that some of the leaves are green above, or merely in part silvery.

Leeds.

564. **Potentilla Anserina grandis** T. & G.

Leeds, Butte.

TRIDOPHYLLUM Necker Els. 2: 93. (1790).

565. **Tridophyllum monspeliense** (Linn.) Greene, Leaflets I: 189. (1906).

Potentilla monspeliensis Linn. Sp. Pl. 499. (1753).

Leeds, Butte, Towner.

566. **Tridophyllum pentandrum** (Engelm.) Greene, l. c.

Potentilla pentandra Engelm.; T. & G. Fl. N. A. I: 447. (1840).

Potentilla rivalis var. *pentandra* S. Wats. Proc. Am. Acad. 8: 553. (1873).

Leeds, Butte, Bottineau.

567. **Tridophyllum leucocarpum** (Rydb.) Greene, l. c.

Potentilla leucocarpa Rydb. in Britt. Ill. Fl. U. S. and Canada, Vol. II: 212. (1897).

Potentilla milligrana Engelm.; Lehm. Delect. Sem. Hort. Hamb. 1849. Add. 12. (1849). Not Dougl. 1833.

Potentilla rivalis var. *milligrana* S. Wats. Proc. Am. Acad. 8: 553. (1878).

Leeds, Butte.

568. **Tridophyllum paradoxum** (Nutt.) Greene, l. c.
Potentilla paradoxa Nutt.; Torr. & Gray, Fl. N. Amer. I: 437. (1840).
Potentilla supina Am. Authors, not Linn.
 Leeds, Peninsula of Lake Ibsen, Devils Lake.
 569. **Tridophyllum Nicolletii** (S. Wats.) Greene, l. c.
Potentilla supina var. *Nicolletii* S. Wats. Proc. Am. Acad. 8: 553. (1873).
Potentilla Nicolletii Sheldon, Bull. Nat. Hist. Surv. Minn. 9: 16. (1894).
 Leeds.
DRYMOCALLIS Fourr. Am. Soc. Linn. Lyon. II: 16. 371. (1868).
 570. **Drymocallis arguta** (Pursh) Rydb. Mem. Dept. Bot. Columbia Univ. 2: 192. (1898).
Potentilla arguta Pursh Fl. Am. Sept. 736. (1814).
Geum agrimonioides Pursh, l. c. (1814), not *P. agrimonioides* Bieb. (1808).
 Leeds, Butte.
DASIPHORA Rafinesque, Ant. Bot. 167. (1838).
Pentaphylloides Morison, Ox. 2: 193. (1715), name undesirable as built on *Pentaphyllum*.
 571. **Dasiphora fruticosa** (Linn.) Rydb. Mem. Bot. Columbia Coll. 2: 188. (1898).
Potentilla fruticosa Linn., Sp. Pl. 495. (1753).
 Sentinel Butte (Bergman).
CHAMERHODOS Bunge (*χαμαί* to the ground, *ρόδον* a rose). This is a poor name! How could this unsightly plant with its almost microscopical flowers impress upon the author's mind the idea of its resemblance to a rose?
 Leeds, Butte, Towner, Dunsieith.
 572. **Chamaerhodos erecta** Bunge, in Ledeb. Fl. Alt. I: 430. (1829).
FRAGARIA Cuba, Hort. Sanit. (15th century). Brunfels, Herb. Viv. Ic. (J. de Manliis) 2: 173. (1531). Tour. Els. 245. (1694), Linn. Gen. (1737 and 1754).
 573. **Fragaria platypetala** Rydb. Mem. Dept. Bot. Columbia Univ. 2: 177. (1898).
 Devil's Lake, Turtle Mountains.
 Pages 339-378, Vol. IV., published Mar. 13, 1916.